

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended): A ceramic heater comprising:

a sintered ceramic plate including,

a heating element formed inside the sintered ceramic plate or on the surface of the

sintered ceramic plate,

a bottomed hole made, being directed from an opposite side to a heating surface for heating an object to be heated, toward the heating surface,

a bottom portion of said bottomed hole formed relatively nearer to the heating surface than the heating element, and

a sheath type thermocouple included in said bottomed hole and pressed on the bottom portion of said bottomed hole; and

a pressing device including at least one of a screw and a rod body, said pressing device configured to press the sheath type thermocouple on the bottom portion of said bottomed hole.

Claim 2 (Previously Presented): The ceramic heater according to claim 1,

wherein a distance between the bottom portion of said bottomed hole and said heating surface is from 0.1 mm to 1/2 of the thickness of the ceramic plate.

Claim 3 (Original): The ceramic heater according to claim 1,

wherein the ceramic constituting said ceramic heater is a nitride ceramic or a carbide ceramic.

Claim 4 (Original): The ceramic heater according to claim 1,

wherein said heating element is divided into at least two circuits.

Claim 5 (Original): The ceramic heater according to claim 1,

wherein said heating element has a section in a flat shape.

Claims 6-9 (Canceled).

10. (Previously Presented): The ceramic heater according to claim 1,

wherein said sheath type thermocouple is pressed thereon, by means of an elastic

body or a screw.

Claims 11-12 (Canceled).

Claim 13 (Previously Presented): The ceramic heater according to claim 1,

wherein said bottomed hole is formed by sandblast treatment or drilling.

Claim 14 (Previously Presented): The ceramic heater according to claim 1,

wherein said heating element is made of tungsten, molybdenum, a carbide of tungsten

or a carbide of molybdenum.

Claim 15 (Previously Presented): The ceramic heater according to Claim 1,

wherein said sheath type thermocouple is connected to a control unit.

Claim 16 (Currently Amended): A ceramic heater comprising:

a sintered ceramic plate including,

a rectangular-section heating element formed inside the sintered ceramic plate or on
the surface of the sintered ceramic plate and having an aspect ratio of a width to a thickness
of the heating element in a range from ~~200~~ 10 to 5000,

a bottomed hole made, being directed from an opposite side to a heating surface for
heating an object to be heated, toward the heating surface,

a bottom portion of said bottomed hole formed relatively nearer to the heating surface
than the heating element, and

a temperature-measuring element included in said bottomed hole and pressed on the bottom portion of said bottomed hole; and
a pressing device including at least one of a screw and a rod body, said pressing device configured to press an end of the temperature-measuring element on the bottom portion of said bottomed hole.

Claim 17 (New): The ceramic heater according to Claim 1, wherein the sheath type thermocouple includes a first portion extending toward the bottomed hole and a second portion connected to the first portion and extending along a surface of the bottomed hole, said second portion configured to be pressed by the pressing device against the bottom portion of the bottomed hole.

Claim 18 (New): The ceramic heater according to Claim 16, wherein the temperature measuring element comprises a sheath type thermocouple, the sheath type thermocouple including a first portion extending toward the bottomed hole and a second portion connected to the first portion and extending along a surface of the bottomed hole,

said second portion configured to be pressed by the pressing device against the bottom portion of the bottomed hole.